

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730891

Luminaire Tested: **HBLED-LD5-30SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLI-UNV-L850
Description: 30000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28484.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

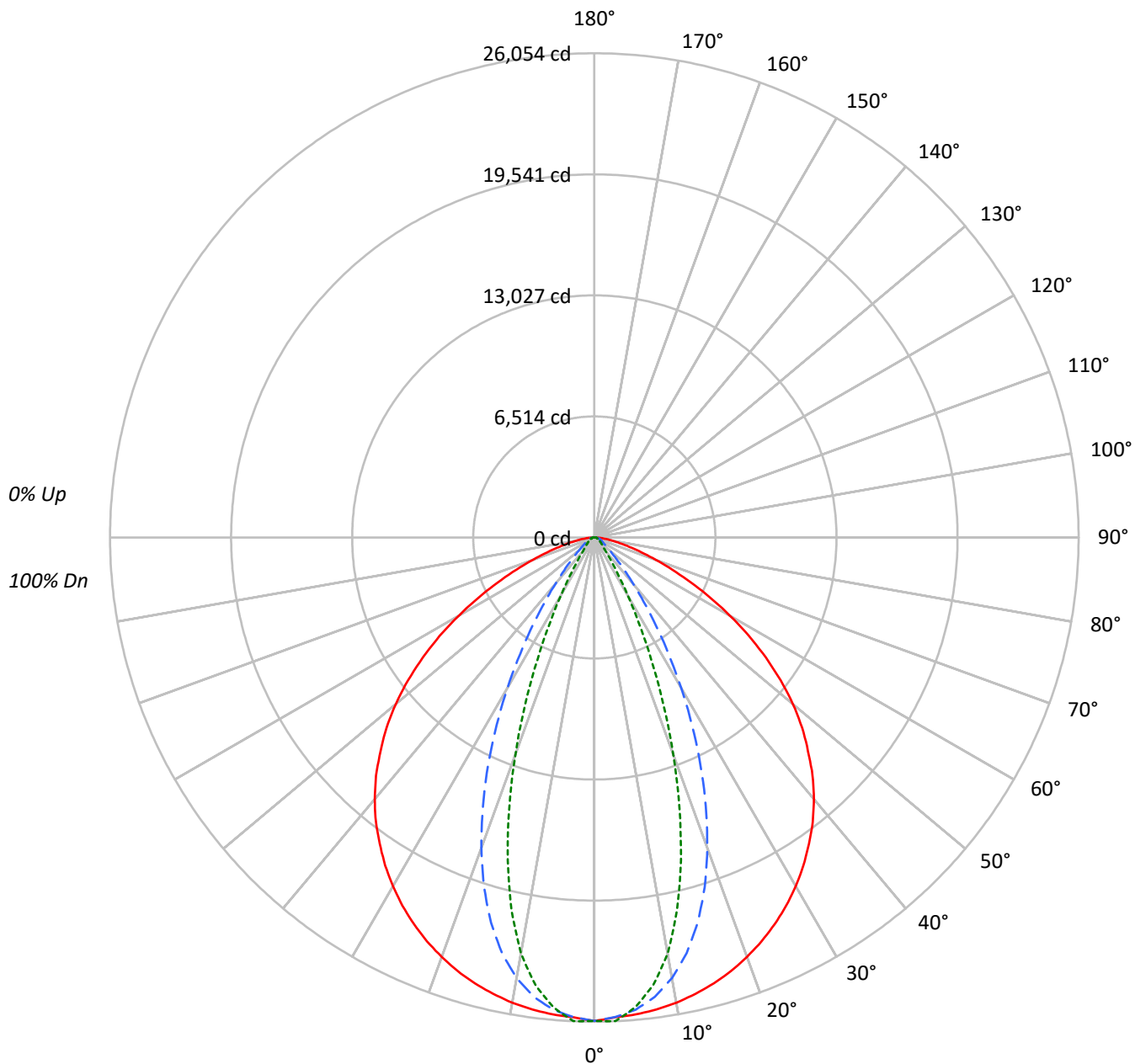
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42008	42008	42008
5°	41756	41340	41123
10°	41686	39468	37244
15°	41518	35876	30079
20°	41269	30527	21318
25°	40900	24072	12880
30°	40403	17373	6620
35°	39674	11358	3306
40°	38733	6822	1929
45°	37124	4074	1443
50°	35014	2664	1211
55°	31690	2021	1057
60°	27233	1721	965
65°	21905	1571	911
70°	16503	1682	906
75°	12139	1599	931
80°	8881	1592	1020
85°	6652	1930	1319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2396.1	8.4
10°-20°	5961.0	20.9
20°-30°	6602.7	23.2
30°-40°	5290.0	18.6
40°-50°	3776.4	13.3
50°-60°	2425.6	8.5
60°-70°	1314.5	4.6
70°-80°	561.9	2.0
80°-90°	155.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14959.9	52.5
0°-40°	20249.9	71.1
0°-60°	26451.8	92.9
0°-90°	28484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26018	26018	26018	26018	26018	
5°	25763	25859	25507	25426	25373	###
15°	24838	24061	21463	18968	17994	7008
25°	22958	20243	13512	8803	7230	10576
35°	20128	14559	5762	2324	1677	12585
45°	16258	8404	1784	759	632	12532
55°	11258	3758	718	441	376	10033
65°	5734	1543	411	284	238	5742
75°	1946	565	256	178	149	2162
85°	359	149	104	86	71	439
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26018.0	26018.0	26018.0	26018.0	26018.0
2.5°	25846.8	26008.5	25834.4	25942.6	26053.6
5°	25763.2	25859.2	25506.9	25426.0	25372.7
7.5°	25617.9	25590.5	24928.7	24499.7	24292.7
10°	25426.0	25204.0	24073.4	23130.7	22716.8
12.5°	25152.0	24694.3	22915.5	21260.1	20558.5
15°	24838.2	24061.2	21462.9	18967.5	17994.5
17.5°	24462.6	23321.1	19726.6	16509.0	15225.0
20°	24018.7	22427.7	17767.0	13897.0	12407.4
22.5°	23522.6	21397.2	15668.9	11293.3	9695.5
25°	22958.0	20243.2	13512.0	8803.4	7230.1
27.5°	22348.3	18962.0	11367.4	6577.8	5143.0
30°	21671.2	17575.2	9318.6	4743.0	3550.7
32.5°	20932.6	16100.7	7415.2	3335.5	2428.3
35°	20128.2	14559.0	5762.4	2324.1	1677.3
37.5°	19304.5	12985.7	4352.3	1643.0	1203.2
40°	18376.8	11418.0	3236.9	1203.2	915.4
42.5°	17380.6	9880.5	2395.5	926.3	741.4
45°	16258.2	8404.5	1784.3	759.2	631.8
47.5°	15170.2	7028.7	1355.3	646.8	549.5
50°	13939.6	5787.2	1060.7	564.6	482.3
52.5°	12633.6	4695.0	860.6	497.5	424.8
55°	11257.7	3757.6	718.0	441.2	375.5
57.5°	9864.0	2976.4	613.9	393.2	334.4
60°	8433.3	2380.3	533.1	352.2	298.7
62.5°	7037.0	1903.5	465.9	316.6	267.3
65°	5733.7	1543.0	411.1	283.7	238.4
67.5°	4529.0	1219.7	383.7	254.9	215.2
70°	3495.8	949.7	356.3	227.5	191.9
72.5°	2648.9	729.1	315.3	202.8	170.0
75°	1945.9	564.6	256.3	178.2	149.3
77.5°	1392.3	434.5	208.3	154.8	128.9
80°	955.1	323.5	171.2	132.9	109.7
82.5°	620.9	228.9	138.4	109.7	90.4
85°	359.1	149.3	104.2	86.3	71.2
87.5°	154.8	82.2	71.2	64.4	54.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)